

MODULATORS OF POLYSACCHARIDES AND USES THEREOF

ABSTRACT OF THE DISCLOSURE

5 The present invention provides peptides with a specific affinity for glycosaminoglycan molecules. These peptides may have any number of functions, including but not limited to use as inhibitors of glycosaminoglycan-mediated processes, enhancers of glycosaminoglycan-mediated processes, and as molecular probes to identify the presence of a specific glycosaminoglycan. Peptides of the invention may be directed against any glycosaminoglycan, including hyaluronic acid, chondroitin sulfate A, chondroitin sulfate C, dermatan sulfate, heparin, 10 keratan sulfate, keratosulfate, chitin, chitosan 1, and chitosan 2. These isolated peptides may have therapeutic uses in the treatment or prevention of diseases involving infection, inflammatory diseases, cancer, infections, etc. The peptides may also have other biological functions such as contraception.

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